

829-842

1912 Dates J-BK

THEOPHILUS was Eastern
Emperor. He was in
constant war with the
Caliphs

To facilitate Cal. Calculations and practical Astronomy, Caliph al-Ma'mun ordered an observatory built in Bagdad and one soon after outside Damascus. Astronomers also set up a network of observation points across the empire that allowed them to conduct experiments. Ex. determine size & circumference of the world which Arabs assumed was round.

Taking measurements in a plain north
of Euphrates and near Palmyra
astronomers were able to calculate the
width of a degree of meridian and come
up with $56 \frac{2}{3}$ Arabic miles. This is
just 2,877 feet wider than the actual
degree

829

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Franks under Carolingians
there was a new division of the
empire:

Karl, youngest son of Ludwig
was given the royal title
and **KLAMANNIA**.

Rebellion of three elder
sons of Ludwig. Civil war ensued.

829

The Caliph Ma'mun built a splendid observatory in Bagdad (829) and his astronomers made regular observations of the heavens.